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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/727,842	11/30/2000	Francis James Canova JR.	PALM-3520 . US . P	3911

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EXAMINER

ABDULSELAM, ABBAS I

ART UNIT PAPER NUMBER

2677

DATE MAILED: 08/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/727,842

Applicant(s)

CANOVA, FRANCIS JAMES

Examiner

Abbas I. Abdulsalam

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 May 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3,5,6,8,11-17 and 19-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3,5,6,8,11-17 and 19-28 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

1. This action is in response to a communication filed on 05/26/05. Claims 1-3, 5-6, 8, 11-17 and 19-28 are pending. Claims 4, 7, 9-10 and 18 are cancelled.

Response to Arguments

2. Applicant's arguments filed on 05/26/05 have been fully considered but they are not persuasive.

Applicant argues that the cited reference, Ho (USPN 6407757) does not teach a number of flexible layers of materials fastened along one with the edge in its entirety mounted on and abutting a housing or adjoining a housing. Applicant also argues that Ho does not teach changing the display according to the rate of movement of the more than one flexible layers, wherein the rate of movement corresponds to how quickly the flexible layers are moved by the user.

However, as shown in Fig. 2, Ho teaches a browsing device (200) whose one side is connected with a computer (205) as shown in Fig. 2A. Ho further teaches an embodiment with a browsing device that uses many thin, hard, and flexible pieces of material bound together in the manner of the binding of the pages of a book as shown in Fig. 15(A-C). It would have been to utilize a browsing device shown in Fig. 15A inside a computer system shown in Fig. 2A.

Also as shown in the art rejection below, Ho teaches that depending on the magnitude of the force applied with respect to flipping, different forms of display (600) can be created (col. 21, 11-67 and Fig. 6A). In addition, Ho's Fig. 7 shows a browsing

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device (740) used in conjunction with a computer screen (721) of displaying various pages. Ho teaches the user's finger applying various amount of force (F1, F2), and discloses that the speed of flipping of one page or the number of pages flipped across at any given time increases as the force on the sensor 121 or 171 of the browsing device (200) increases (col. 29, 56-67, col. 30, lines 1-10 and Fig. 10A-10H). Therefore it would have been obvious to utilize Ho's application magnitude of the force to the sensors with respect to flipping to meet the desired feature, "the rate of movement of more than one flexible layers". Further it would have been obvious to utilize Ho's "speed of flipping" to achieve another desired feature, "how quickly the flexible layers are moved." Furthermore, it would have been obvious to utilize Ho's application of force to the sensors and the speed of flexible layers with respect to various formation of display (721) as illustrated in Fig. 7

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3, 5-6, 8, 11-17 and 19-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ho (USPN 6407757).

Regarding claims 1, 11 and 21, Ho as shown in Fig.7 teaches a browsing device (740) sending signals through a bus (741) to a computer input port (730) and to a

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browsing /viewing software, (720), so as to effect operations on the screen (721) of the computer. Ho teaches a conversion software (710) enabling to pre-convert a document (701) to be used in conjunction with a browsing device (740). See col. 25, lines 10-40 and Fig. 7. However, in Fig. 7,

Ho does not illustrate a user interface including “a plurality of flexible layers” fastened to each other along a single edge in a stack, and not fastened to each other along other edges.

On the other hand, Ho teaches as shown in Figs (15A-15C) a device (1500) which includes many thin, hard and flexible pieces of material (1501) bound together in a manner of a binding of pages in a book. See col. 33, lines 26-37. Further, Ho teaches that device (1500) has four buttons (1511-1514) on the top surface (1530), and four buttons (1531-1534) on the bottom surface (1530) serving as function buttons as shown in Fig. 15B.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to replace Ho’s browsing device (740) in Fig. 7 by a device (1550) of Fig. 15 for the purpose of browsing or scrolling through documents or any information stored in the computer (col. 23, lines 28-32).

Furthermore, Ho teaches as shown in Fig. 2 an assembly (200) which is electrically and operatively connected to the computer (205) with left and right thumbs (172, 122) operating on the left and right sensor areas (171 and 121) respectively, such that thumbs apply the flipping force to the sensors (121, 171, col. 21, lines 1-3). Ho further adds that depending on the magnitude of the force applied with respect to flipping, different forms of display (600) can be created (col. 21, lines 11-67 and Fig. 6A).

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Regarding claim 11, in addition to what has been described, Ho as shown in Fig. 4A teaches a movement through a document under the control of thumb on the browsing device such that the amount of force applied by the thumb determines the initiation of movement through document (405, 406) as well as positions (406). See fig. 4A. It would have been obvious that the "initiation of movement through document" can be used to satisfy the desired detection of movement of the layers. Ho teaches the user's finger applying various amount of force (F1, F2) with respect to the speed of flipping, and discloses that the speed of flipping of one page or the number of pages flipped across at any given time) increases as the force on the sensor 121 or 171 of the browsing device (200) increases (col. 29, 56-67, col. 30, lines 1-10 and Fig. 10A-10H).

Regarding claim 21, in addition to what has been described above, Ho teaches a computer-based process permitting different organizations of material corresponding to display format including organized pages that can be flipped. See col. 7, lines 22-43. Ho further teaches a method of generating flipping pages from a document stored in some media on a personal computer such as lab tap. See col. 20, lines 29-33. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the lab tap as a personal computer for the purpose of organizing and incorporating the flipping technique.

Regarding claims 2, 12 and 22, Ho discloses an open fan display for displaying pages used in conjunction with the flipping method (500) (Fig. 5A, 6A). Ho teaches that the flipping is to take place using at thumb (122). See col. 21, lines 12-23. It would have been obvious the flipping constituted separation of one page (602) from the other (603)

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and hence meets “the desired separation of a first flexible layer from a second flexible layer.”

Regarding claims 3, 13 and 23, Ho teaches as shown in the Fig. 14, a process by which the flipping display of Figs (13A-13B) is generated. Ho details flipping action with respect to moving points (1404, 1405) and arcs (1406) generated based on the equation illustrated in Fig. 14C. It would have been obvious the movement on the curve shown in Fig. 14 meets flexibility separation as well as contacting of pages.

Regarding claims 14, 17, 24-25 and 27, Ho teaches as shown in Fig. 13A a page (1301) bending as it is being flipped from right to left. See col. 32, lines 55-56.

Regarding claims 5 and 15, Ho teaches the position of the thumb (122) in the x direction on the sensor area as detected by the position sensors (121) on the slanted surface (120). See col. 13, lines 1-18.

Regarding claim 8, Ho discloses flip through the pages at varying speeds depending on the need to view the material in the book. See col. 2, lines 37-42.

Regarding claims 6, 16 and 26, Ho teaches that teaches a computer-based process in which organization of materials are used including organizing into pages that can be flipped through page by page from right to left or vise versa. See col. 7, lines 21-30. It would have been obvious that such a flip maintains the order of the pages and hence meets the desired order in which flexible layers are moved.

Regarding claim 28, Ho discloses flip through the pages at varying speeds depending on the need to view the material in the book. See col. 2, lines 37-42.

Conclusion

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4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abbas I. Abdulselem whose telephone number is (571) 272-7685. The examiner can normally be reached on Monday through Friday from 9:00 A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached on (571) 272-7681. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you

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have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abbas Abdulsalam

Examiner

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August 5, 2005

A handwritten signature in black ink, appearing to read "Patrick N. Edouard". The signature is stylized with a large, looping initial "P" and a cursive script for the rest of the name.

PATRICK N. EDOUARD
SUPERVISORY PATENT EXAMINER